LISTING OF THE CLAIMS (1-26)

Claim 1 (currently amended): A method for generating signals that can be used for accurately determining position comprising:

a.) generating correction data, said correction data ~~adapted to enable properly equipped position determination systems to accurately determine position~~ comprising code phase correction data or carrier phase observable data;

b.) modulating said correction data to a designated frequency so as to produce a first signal;

c.) generating second signal at a radio station;

d.) coupling said first signal and said second signal to a diplexer;

e.) diplexing said first signal and said second signal; and

f.) coupling said diplexed first signal and said diplexed second signal to [[the]] an antenna of said radio station such that said diplexed first signal and said diplexed second signal are transmitted from said antenna.

Claim 2 (original): The method for generating signals that can be used for accurately determining position of Claim 1 wherein said radio station is an existing AM radio station.

Claim 3 (original): The method for generating signals that can be used for accurately determining position of Claim 1 wherein said first signal is modulated to a frequency of approximately 300 kilohertz.

Claim 4 (original): The method for generating signals that can be used for accurately determining position of Claim 1 wherein said first signal is modulated to a frequency from 200 kilohertz to 400 kilohertz.

Claim 5 (original): The method for generating signals that can be used for accurately determining position of Claim 1 wherein said first signal is transmitted at a power level of 1 kilowatt.

Claim 6 (original): The method for generating signals that can be used for accurately determining position of Claim 1 wherein said correction data is encrypted.

Claim 7 (original): The method for generating signals that can be used for accurately determining position of Claim 1 wherein step a) further comprises
        a1) receiving position determining signals;
        a2) determining the position indicated by said received position determining signals; and
        a3) determining correction data using said determined position indicated by said received position determining signals and using the actual position of said radio station.

Claim 8 (original): The method for generating signals that can be used for accurately determining position of Claim 1 wherein step a) further includes the steps of:
        a1) receiving position determination signals; and
        a2) wherein said correction data includes carrier phase observable data obtained from said received position determining signals.

Claim 9 (currently amended): An apparatus for generating signals that can be used for accurately determining position comprising:
        a) a beacon signal generator for generating a first signal that includes correction data, said correction data comprising code phase correction data or carrier phase observable data; and
        b) a diplexer coupled to said beacon signal generator and adapted to be coupled to a radio signal transmitter that generates a second signal, said diplexer adapted to be coupled to an antenna for transmitting said first signal and said second signal.

Claim 10 (currently amended): The apparatus of Claim 9 wherein said beacon signal generator generates correction data that is encrypted, said beacon signal generator adapted to generate an activation instruction and include said activation instruction in said first signal, said activation instruction for indicating to a position determining system that said encrypted correction data is to be used for accurately determining position.

Claim 11 (original): The apparatus of Claim 10 wherein said first signal is modulated to a frequency of approximately 300 kHz.

Claim 12 (original): The apparatus of Claim 10 wherein said first signal is modulated to a frequency from 200 kHz to 400KHz.

Claim 13 (original): The apparatus of Claim 9 wherein said first signal is transmitted at a power level of 1 kilowatt.

Claim 14 (original): The apparatus of Claim 9 wherein said beacon signal generator further includes: a receiver for receiving position determination signals; input means for receiving user input; and a controller coupled to said receiver and coupled to said input means.

Claim 15 (original): The apparatus of Claim 14 wherein said beacon signal generator further comprises:
a transmitter operable to generate a signal in the 300 kilohertz band; and
an antenna tuning unit coupled to said transmitter.

Claim 16 (original): A method for accurately determining position comprising:
a) providing a position determination system that includes a receiver adapted to receive position determination signals and that includes a radio for receiving encrypted correction data;
b) determining position without using said encrypted correction data when no encrypted correction data signal is being received;
c) determining position without using said encrypted correction data when an encrypted correction data signal is being received and when an activation instruction has not been received; and
d) accurately determining position using said encrypted correction data when an encrypted correction data signal is received that includes an activation instruction.

Claim 17 (original): The method for accurately determining position of Claim 16 wherein the position determined in step d) is determined using differential global positioning system position determination methods.

Claim 18 (original): The method for accurately determining position of Claim 16 wherein the position determined in step d) is determined using real time kinematics position determination methods.

Claim 19 (original): The method for accurately determining position of Claim 16 wherein said activation instruction includes

an identification code unique to said position determination system.

Claim 20 (original): The method for accurately determining position of Claim 16 wherein said radio receiver receives transmissions in the 300 kHz band.

Claim 21 (original): The method for accurately determining position of Claim 16 wherein said position determination system receives position determining signals from satellites of the US global positioning system.

Claim 22 (original): A position determination system comprising:
    a) a receiver adapted to receive position determination signals;
    b) a radio adapted to receive encrypted correction data signals, and
    c) a correction program coupled to said receiver and coupled to said radio, said correction program adapted to accurately determine position using said position determination signals and said encrypted correction data signals upon receiving an activation instruction included in said encrypted correction data signal.

Claim 23 (original): The position determination system of Claim 22 wherein said receiver determines position without using said encrypted correction data when no encrypted correction data signal is being received, said receiver determining position without using said encrypted correction data when an encrypted correction data signal is being received and when an activation instruction has not been received, said correction program operable upon receiving an encrypted correction data signal that includes an activation instruction such that position is accurately determined using said encrypted correction data.

Claim 24 (original): The position determination system of Claim 23 wherein said 10 receiver is adapted to receive position determination signals from satellites of the US GPS.

Claim 25 (original): A method for charging users for use of correction data comprising the steps of:
    a) broadcasting a radio signal that includes correction data that is encrypted;

b) providing a position determination system that includes a radio for receiving said radio signal, said position determination system adapted to decrypt said encrypted correction data; and 20

c) including an activation instruction in said radio signal upon payment by a user for use of said correction data, said activation instruction instructing said position determination system to accurately determine position using said encrypted correction data.

Claim 26 (currently amended): The method for charging users for use of correction data of Claim 25 further comprising the step<u>s</u> of:

d) allowing a user to use said correction data as long as said user pays for such use; and

e) including a deactivation instruction in said radio signal to instruct said position determination system to discontinue accurately determining position using said encrypted correction data.

Claim 27 (new): An apparatus for generating signals that can be used for accurately determining position comprising:

a) a beacon signal generator for generating a first signal that includes correction data;

b) a diplexer coupled to said beacon signal generator and adapted to be coupled to a radio signal transmitter that generates a second signal, said diplexer adapted to be coupled to an antenna for transmitting said first signal and said second signal; and

wherein said beacon signal generator generates correction data that is encrypted, said beacon signal generator adapted to generate an activation instruction and include said activation instruction in said first signal, said activation instruction for indicating to a position determining system that said encrypted correction data is to be used for accurately determining position.

Claim 28 (new): The apparatus of Claim 10 wherein said first signal is modulated to a frequency of approximately 300 kHz.

Claim 29 (new): The apparatus of Claim 10 wherein said first signal is modulated to a frequency from 200 kHz to 400KHz.